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receive the other End of the Knife *d*; and the solid square Part thereof, *iklm*, is to be fasten'd in the Groove that is under it, by two Iron-plates *α α*, *ε ε*, under which it must run in the said Groove, so as that it may be slipp'd out from under it, and laid by, when the Engine is not used; at which Time also the Piece at the other End may be unscrew'd and laid up.

The two long Squares upon one End of the Block, in Fig. 1. viz. 5. 6. 7. 8. are two Iron-plates to be fasten'd, where the Knife, moving in a fit Cavity, is to cut the bruised Stuff between them. And of these Plates that, which lies next the End, is to be laid a little lower, the Block being there pared accordingly, that so the Stuff may fall off from the End of the Engine the quicker, as your left Hand furnishes the Knife with the bruised Materials, whilst the right Hand is cutting them.

Let the hollow Place, where the Knife cuts, be, as near as may be, so big only, that the Knife may easily fall and rise; and let the Block be hollow'd under the cutting Hole, and sloped off at that End, for the Stuff to fall off as the Knife cuts it.

An Extract of a Letter of Mr. Martin Lister concerning the first Part of his Tables of Snails, together with some Quære's relating to those Insects, and the Tables themselves; sent to the Publisher from York, March 12. 1673.

I Herewith send you the first Part of our *Tables of Snails*, and some *Quære's* upon that Subject; also the lively Figure of each Shell for Illustration, done by Mr. *Lodge*. I reserve by me the *Sea-shells* and *Rock-stones*. That Part, I send you at present, being at a Stand with me, those other increase upon my Hands daily; which though that be not a Sign of Perfection (for there is undoubted Work for many Ages,) yet is of good Advancement and Progress; this other of the Copiousness of the Subject. Again, in that Part of the Tables, you have from me, Authors are very little concern'd; in the other of *Sea-shells* and *Stone-like Shells* there are many Authors, which are to be consulted and taken in, if possible we can understand them treating of the same Species. As for *Rock-shells* in particular, they come in to me in greater Numbers, than I could ever have imagined. And I can assure

sure you, that of near 30 *Species*, I have now by me, found in this County alone, not any one can be sampled by any *Sea*, *Fresh-Water* or *Land-Snail*, that I have, or ever saw. So that you see, I have still good Reason to doubt of their Original, besides many other Arguments that my Observations about *Fossils* do afford, and which you may possibly one Day see. And that there are the elegant Representations of even *Bivalve-shells*, which never owed their Original to any Animal, I can demonstrate; and think none, that hath considered the Thing with me, yet hath denied: Of which hereafter. But whether all be so or no, I choose this Method, as the most convincing, viz. to give a comparative View.

Some general Quære's concerning Land and Fresh-Water Snails.

1. Whether there are other Shell-Snails at Land, than Turbinate?

2. Whether this Kind of Insect are truly *Androgyna*, and equally Participate of both Sexes, as Mr. Ray first Observed; and whether both of them two which shall be found in the Act of Venery, do accordingly *spawn*, or lay those perfectly round and clear Eggs, so frequently to be met with in the surface of the Earth and in the Water too; and the Circumstances of those Eggs Hatching?

3. Whether the Way of fattening Snails, in use amongst the *Romans*, that is, to make little paved Places incircled with Water, be not also very expedient in Order to the true noting the Manner of their Generation?

4. What light the *Anatomy* of this Kind of Insect may give to the rest?

5. Whether the black Spots, observable in the Horns of some Snails, are Eyes, as some Authors affirm, and not rather Parts equivalent to the *Antennæ* of other Insects; as the flat and exceeding thin Shape, also the branched Horns, in other Species of Snails seem to confirm?

6. Whether the *coccinea Sanies*, which some of our Water-Snails freely and plentifully yield, be not a *Saliva* rather than

an *extravasated Blood* : The like may be Thought of the Juice of the *Purple-fish*, now out of use, since the great Plenty of *Cochineil* ?

7. In what sort of Snails are the *Stones*, mentioned by the Ancients, to be found ? And whether they are not to be found (in such as yield them) at certain Times of the Year ? And whether they are a Cure for a Quartan ; or what other real Vertue they have ?

8. What medicinal Vertues Snails may have, as restorative to Hectic Persons ; and what credit the *Romans* may deserve, counting them, especially the Necks of them, highly Venereal ; *Celsus* also particularly commending them to be *boni succi*, and *stomacho aptas*.

9. Also inquire concerning the Machanical Uses of the *Saliva* of these Animals, as in dying, whitening of Wax, Hair, &c.

Note, that the Figures are numbered and explained by the *Tables*. The Figures of the *naked Snails* are omitted in this Specimen, being not material to that Part of the Design, which is, (when the other Parts of the Table are finish'd,) to give the Reader an exact View of *Animal-shells*, as well as of *Fossils* figured like Shells, whereby he will be best able to Judge, what to think of their Original.

Cochleæ**Terrestres****testis intacta****Turbinata**

breuiore figurâ, Numero V.

1. *Cochlea cinerea maxima* edulis, cuius Os operculo gypseo per hyemem tegitur, agri *Hartfordiensis*.
2. *Cochlea cinereo levitèr rufescens, striata, operculo testaceo cochleato donata.*
3. *Cochlea* & colore & fasciis multa varietate ludens.
4. *Cochlea subflava, maculata, atque unica fascia castanei coloris per medium anfractus insignita.*
5. *Cochlea vulgaris major, hortensis, maculata & fasciata.*

longiore figura

ad sinistram convolutâ. N. IV.

6. *Buccinum exiguum subflavum, mucrone obtuso, siue figura cylindrica.*
7. *Buccinum alterum exiguum in Musco degens, 5 anfractu, mucrone acuto.*
8. *Buccinum rupium majusculum, senis orbibus protrahum.*
9. *Buccinum parvum siue Trochilus sylvaticus agri Lincolnensis.*

ad dextram, N. II.

10. *Buccinum pullum, ore compresso, circiter denis spiris fastigiatum.*
11. *Buccinum alterum pellucidum, subflavum, intra senos fere orbis mucronatum.*

compressâ, N. II.

12. *Cochlea cinerea, fasciata, Ericetorum.*
13. *Cochlea altera, pulla, sylvatica, spiris in aciem depressis.*

nuda, limaces dictæ quibusdam, N. III.

14. *Limax cinereus maximus, striatus & maculatus, lapillo siue officulo insigni, loco Cranii, donatus, locis udis & umbrosis degens.*

Fluviatil.

15. *Limax cinereus alter, parvus, unicolor, pratensis.*

Turbin.

16. *Limax ater.*

Cochlea, N. I.

17. *Cochlea fasciata, ore ad amussim rotundo.*

Buccina, N. V.

18. *Buccinum flavum, pellucidum, intra tres spiras terminatum.*
19. *Buccinum alterum majus, paulo obscurius, pellucidum tamen, 4 Spirarum, mucrone acutissimo.*
20. *Buccinum fuscum, 5 Spirarum plenarum, mucrone sapius mutilato, obtusoque.*
21. *Buccinum subflavum alterum, 5 Spirarum, atque operculo tenui & pellucido, testaceo tamen cochleatoque donatum.*
22. *Buccinum longum sex spirarum, in tenue acumen ex amplissima basi mucronatum.*

Compressa testa, Coccum fundentes, N. III.

23. *Cochlea pulla, ex utraque parte circa umbilicum cava.*
24. *Cochlea altera parte plena, & limbo donata, 4 circumvolutionum.*
25. *Cochlea minor, altera parte plana, sine limbo, 5 circumvolutionum.*

Bivalve N. II.

26. *Musculus, parvus, subflavus, testa pellucida, pisi magnitudine, palustris.*
27. *Musculus alter, fluminum maximus, subviridis.*

Marinæ, &c.

